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*Annual Report of the State Geologist, Geological Survey of New Jersey, 1909.* By HENRY B. KÜMMEL, State Geologist. Pp. 123.

Besides the administrative report this volume contains the following papers: "Report upon the Development of the Passaic Watershed by Small Storage Reservoirs," by C. C. Vermeule; "Records of Wells in New Jersey, 1905-9," by Henry B. Kümmel and Howard M. Poland; "Notes on the Mineral Industry," by Henry B. Kümmel.

E. R. L.

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"A Proposed Classification of Petroleum and Natural Gas Fields Based on Structure." By FREDERICK G. CLAPP. *Economic Geology*, Vol. V, No. 6 (September, 1910), pp. 503-21.

The classification proposed by the author of this paper is based on the "anticlinal" or "structural" theory, which is called into use to explain the segregation of oil, water, and gas from a primary disseminated condition. Depending on the structures which have segregated and localized the pools, seven classes of oil and gas accumulations have been distinguished by the author: I, Where anticlinal and synclinal structure exists; II, Domes or quaquaversal structures; III, Sealed faults; IV, Oil and gas sealed in by asphaltic deposits; V, Contact of sedimentary and crystalline rocks; VI, Joint cracks; VII, Surrounding volcanic vents. Class I embraces most of the known oil fields and is subdivided into five subclasses to distinguish the various relations of the pools with anticlines and synclines.

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"Outline Introduction to the Mineral Resources of Tennessee." Extract (A) from Bulletin No. 2, *Preliminary Papers on the Mineral Resources of Tennessee, State Geological Survey*. By GEORGE H. ASHLEY, State Geologist. Pp. 65.

This pamphlet contains a brief survey of the surface features of the state, the geological formations, and the geological history; and a list of the minerals of the state with a brief notice of their occurrence, use, etc. Bulletin No. 2, of which this is the first part to be published, is the first scientific publication of the newly established state survey, and is not intended as an original contribution but as a brief statement of facts already published, and is designed to meet the demand for immediate information on the mineral resources of the state.

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